

31

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/786,677	TAYLOR ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	LAM T. MAI	2819	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. ☒ This communication is responsive to 3/8/07.
- 2. ☒ The allowed claim(s) is/are 1-3,6-13,15-21 and 26-28.
- 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    - 1. ☐ Certified copies of the priority documents have been received.
    - 2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    - 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

- 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  - 5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
- 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ul style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ul> | <ul style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ul> |
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## **DETAILED ACTION**

### **Response to Amendments**

Applicant's amendments filed on 3/8/2007 has been carefully considered. As a result of canceling claims 4-5, 14 and 22-25 and amending claims 1, 11, and 16, rejections made in the office action dated 2/8/07 have been overcome.

### ***Specification***

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### ***Allowable Subject Matter***

Claims 1-3, 6-13, 15-21 and 26-28 are allowable.

The following is an examiner's statement of reasons for allowance: Claim 1 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to teach or suggest claimed apparatus comprising, among other limitations, a novel and unobvious limitations of "the translation circuit is to provide a loop gain of less than about one" structurally and functionally interconnected with other limitation cited in the claim and dependent claims 2-3 and 6-7.

Claim 8 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to teach or suggest claimed apparatus comprising, among other limitations, a novel and unobvious limitations of "the second input signal includes an adjustable phase to be adjusted in response to an indication of an

amplitude of an output signal to reduce a phase distortion" structurally and functionally interconnected with other limitation cited in the claim and dependent claims 9-10.

Claim 11 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to teach or suggest claimed system comprising, among other limitations, a novel and unobvious limitations of "the adjustable phase is capable of being adjusted while leaving a signal amplitude associated with the amplifier substantially unchanged" translation circuit is to provide a loop gain of less than about one" structurally and functionally interconnected with other limitation cited in the claim and dependent claims 12-13 and 15.

Claim 16 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to teach or suggest claimed method comprising, among other limitations, a novel and unobvious limitations of "a tuning element selected from a capacitor and an inductor is used to received the control signal to adjust the adjustable phase" structurally and functionally interconnected with other limitation cited in the claim and dependent claims 17-21.

Claim 26 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to teach or suggest claimed apparatus comprising, among other limitations, a novel and unobvious limitations of "a translinear circuit to be coupled to the second input signal and to the indication and to adjust the adjustable phase and third stage including a third amplifier" structurally and functionally interconnected with other limitation cited in the claim and dependent claims 27-28.

Art Unit: 2819

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **Cited References**

The prior art made of record and not replied upon is considered pertinent to application's disclosures. The cited references relate to instant application subject matter.

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM T. MAI whose telephone number is (571)272-1807. The examiner can normally be reached on 5:30 am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Barnie Rexford can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2819

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Lam T. Mai  
Art Unit 2819